



KNOWLEDGE BASE

Article Type: Reference Materials

Mix Mizer Hopper Module

Description:

Reference material on Mix Mizer Material level Indicator #MZ540051, where used. parts list, photos's and brief description.

WARNING

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous - avoid personal injury and or death by following manufacture, Local, and OSHA safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.



Mix-Mizer

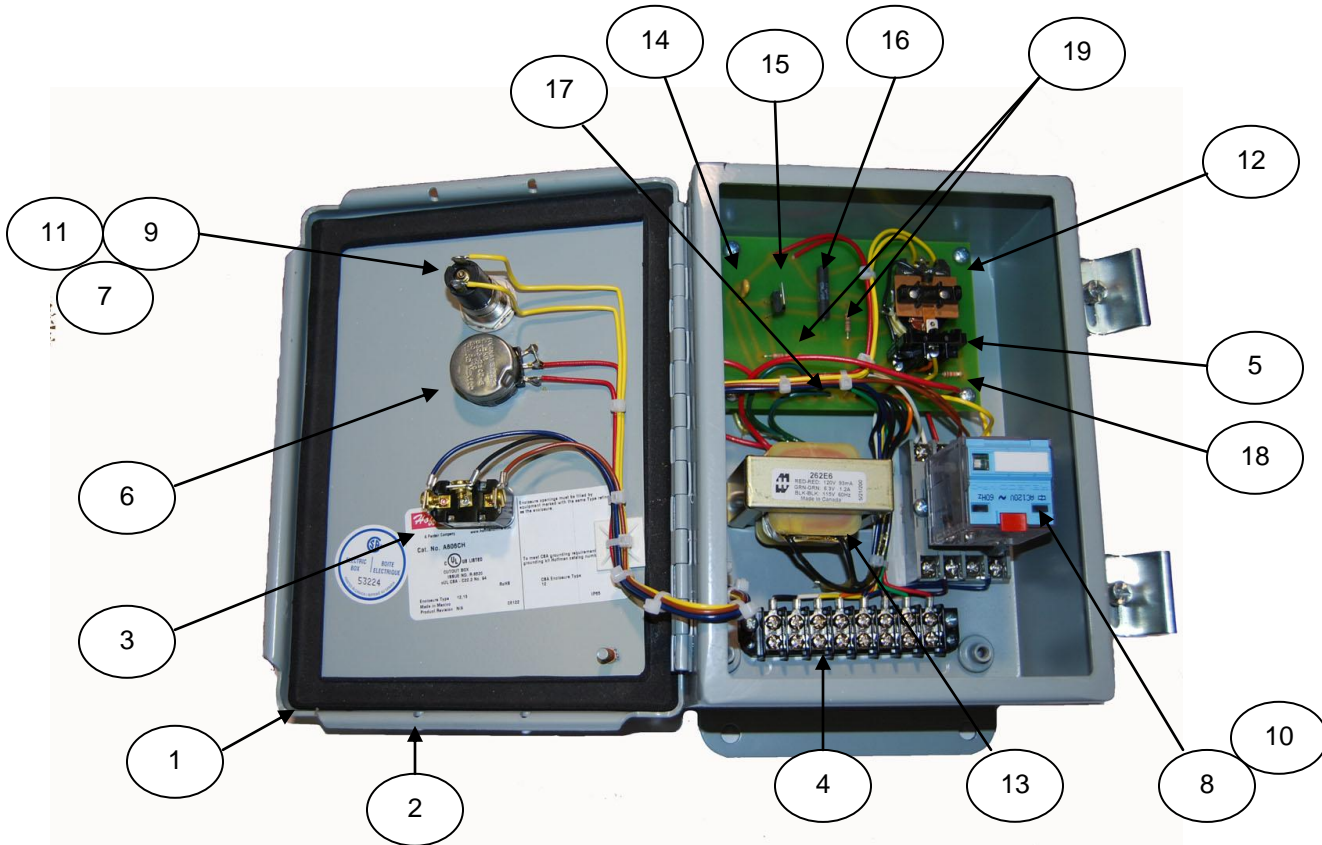
Hopper Level Indicator – MZ540051
Drawing # 328.145.7.1

Used on; Stand-a-lone system

The Hoper level Indicator can be used in several different modes of operation;

- Used as a level indicator, giving the operator a visual ‘empty status’ of the hopper.
- Used as a hopper control, giving a “hopper empty” signal to an automatic batching system.
- Used as a block machine cut-off control when the hopper is empty.
- Used as a Metering Belt control controlling the filling of material into a hopper.

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SEQ#	Item Number	Description	Qty.
1	2015280	ENCL,8X6X3.5 CH, A-806CH	1
2	4419	MIXMIZER,FACE PLT FORMZ540051	1
3	232619	SELECTOR SWITCH, SS-206-15	1
4	2011533	TERM STRIP 8 POINT	1
5	2011385	RELAY SPDT 120VAC 1 KA5AG-120V	1
6	235794	POT,2.5K OHM 2 W,7/8IN SHAFT	1
7	234604	BULB,B2A	1
8	203903	SOCKET, 8 PIN RELAY, SR2P06	1
9	2011633	LAMP MINIATURE T21/2, 31099	1
10	236831	RELAY DPDT C2A20,C2A20X-120VAC	1
11	2011338	OPERATOR LENS RED 30110	1
12	2010683	MIXMIZER PC BOARD 1A781 1A781	1
13	234834	TRNSFMR, 262E6	1
14	231012	CAPACITOR, 100PF-1000v	1
15	230774	DIODE / SCR, 4 AMP, 200v, NTE5455	1
16	202720	RESISTOR, 5K OHM, 5 W	1
17	203162	RESISTOR, 100 OHM, 1/2 W	1
18	MZ207550	RESISTOR, 22K OHM, 1/2 W	1
19	203204	RESISTOR, 1.5K OHM, 1/2 W	2

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INSTRUCTIONS

1. MOUNTING THE CONTROL

- A. THE MODULE CAN BE MOUNTED WHERE IT IS CONVENIENT FOR THE OPERATOR. WIRE LENGTH HAS NO EFFECT ON OPERATION.
- B. THE MODULE MUST BE FREE FROM VIBRATION.

2. MOUNTING THE PROBES

- A. PROBE HOLDERS MUST BE WELDED IN PLACE SO THE PROBES CAN BE ADJUSTED UP AND DOWN TO THE MOST SUITABLE OPERATING POSITION.
- B. POSITION HIGH LEVEL PROBE SO THAT WHEN TIP IS COVERED, MACHINE HOPPER CAN BE FILLED TO MAXIMUM WITHOUT OVERFLOWING.
- C. MOUNT THE LOW LEVEL PROBE SO THAT WHEN TIP IS EXPOSED, THE MACHINE HOPPER WILL STILL HAVE ENOUGH MATERIAL IN HOPPER THAT THE DENSITY OF BLOCKS WILL NOT BE AFFECTED.

3. ELECTRICAL CONNECTIONS

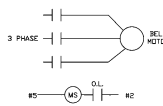
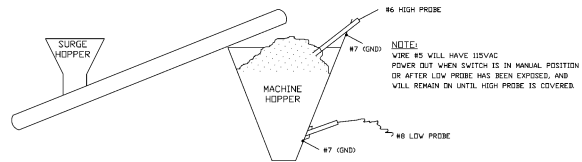
- A. HIGH LEVEL PROBE IS CONNECTED TO TERMINAL #6 OF THE CONTROL MODULE.
- B. LOW LEVEL PROBE IS CONNECTED TO TERMINAL #8.
- C. 115 VAC SOURCE TO TERMINAL #1, NEUTRAL CONNECTED TO TERMINAL #2, GROUND CONNECTED TO TERMINAL #7.
- D. TO ENSURE POSITIVE FUNCTION, AN ADDITIONAL WIRE (GROUND) SHOULD BE CONNECTED DIRECTLY FROM HOPPER SKIN TO TERMINAL #7 OF MODULE.
- E. BELT MOTOR STARTER 115 VAC COIL CONNECTED TO TERMINAL #5. ANY HOLDING CONTACTS SHOULD BE DISCONNECTED.

4. SENSITIVITY ADJUSTMENT

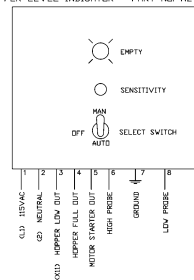
FILL THE HOPPER UNTIL HIGH LEVEL TIP IS COVERED WITH THE MATERIAL THAT WILL BE USED. ADJUST THE SENSITIVITY UNTIL EMPTY LIGHT IS "ON", BACK OFF ADJUSTMENT UNTIL THE LIGHT IS "OFF" AND BACK OFF 1/8" MORE. LOCK ADJUSTMENT. THE CONTROL IS NOW ADJUSTED TO THE MOISTURE CONTENT OF THE MATERIAL.

5. MAINTENANCE

THE MODULE REQUIRES NO MAINTENANCE. THE PROBE REQUIRES DAILY CLEANING AND THE RUBBER COVERS REQUIRE INSPECTION FOR BREAKS AND CUTS WHICH MAY CAUSE FALSE READINGS.



(HOPPER LEVEL INDICATOR - PART NO. MZ-540051)



D				INSTALL MOTOR OVERLOAD HEATERS PER MOTOR NAMEPLATE SPECIFICATIONS. THIS EQUIPMENT IS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND LOCAL CODES AND ORDINANCES. INSTALLATION IS TO BE PERFORMED BY A LICENSED ELECTRICIAN AND INSPECTED BY LOCAL AUTHORITIES. PLEASE DISCONNECT ALL POWER BEFORE SERVICING.	<p>COLUMBIA MACHINE INC. VANCOUVER, WA 98660-8500 CONCRETE PRODUCT DIVISION</p>	ENG:RUSSAU	SCALE: NTS
C						DRAWN BY:RUSSAU	SHT. 1 OF 2
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